

TOPKODAS

1WIO8

8-channel I/O Expansion module

Quick setup guide



Ver: 221031

Specifications

Number of Inputs/Outputs: 8

- Digital Input: NC, NO, internal 10K pull up resistors to input VDC (10-30V).
- Output: Open Drain **24V/1A**. Protection:
 - Short Circuit Protection with Auto Restart
 - Overvoltage Protection (Active Clamp)
 - Thermal Shutdown with Auto Restart
 - Overcurrent Protection

AUX output: 10-30V, up to 1A, protection: fused.

Power supply: DC 10-30 V 200 mA max

Current consumption in idle state w/o external devices connected: up to 50mA

Maxim's 1-Wire® interface:

Dimensions: 73x62x26mm

Operating temperature range: -20...+55 °C

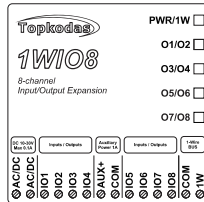
Module weight: 70g

Package weight: 90g

Humidity: 0-90% RH @ 0... +40°C (0-90% RH @ +32... +104°F) (non-condensing)

1. Terminals and LED indication

LED	Indication variations	Meaning
PWR/1W (green/red)	Green on	Power is OK
	Green Off	No power voltage.
	Red blinking fast	1-Wire Bus communication
O1-O8 (green/red)	Lights continuously	Output state is ON
	Off	Output state is OFF



Terminal Descriptions:

Terminals	Description
AC/DC	Power input 10-30V/ 1A
IO1 – IO8	Input or output depending on the position of the DIP switch
COM	Common terminal
AUX+	Auxiliary Power, 1A MAX
1W	Maxim's 1-Wire® interface

2. Installation & wiring

2.1. Mounting types

Wall mounting. (No need to open enclosure!)

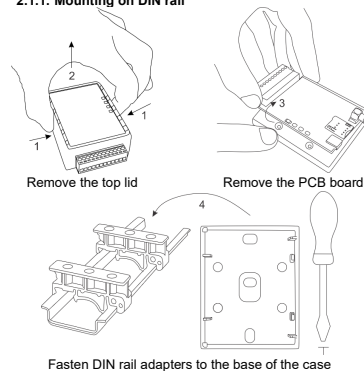
-Velcro stick on adhesive fasteners

-DIN Rail mounting using adapter.

-Flush mounting over electric wall box

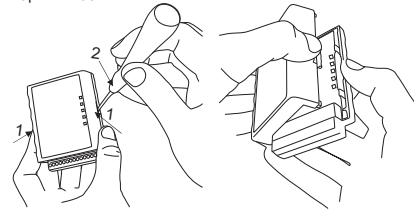
Following the connecting diagram, connect the relay contact to the device you wish to control and connect the power supply:

2.1.1. Mounting on DIN rail



2.2. Set up of the controller

1. Open 1WIO8 enclosure



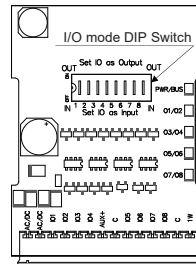
- Press the top of the case with your fingers in the direction of the arrows [1].
- Then insert a screwdriver [2] on the right side and gently unhook the hook of the case cover.

2. Upon your needs set the mode of each I/O. It is done by using the switch on the **DIP switch [input <-> output]** located on PCB.

3. Connect 1Wire bus between expansion module 1WIO8 and Controller.

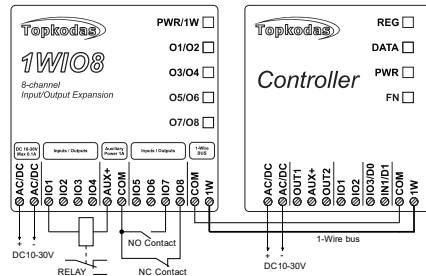
4. Connect needed sensors or relays to Inputs /Outputs

5. Connect power supply 10-24VDC to the 1WIO8.



2.3. Wiring diagram for connecting 1WIO8 to the controller via 1-Wire bus

! All wiring should be done with the power supply disconnected!



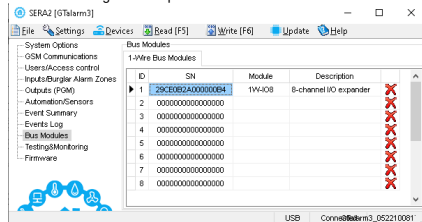
Set configuration for TOPKODAS controllers

Setting expansion module parameters using SERA2 software

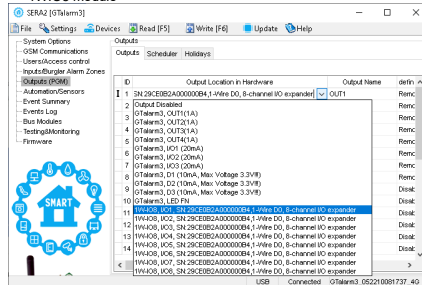
With SERA2 software you can change the controller's settings:

1. Download the configuration software SERA2 from <https://www.topkodos.it/downloads/> and install it.
2. Connect the controller to a computer using a mini USB cable.
3. Launch the configuration software SERA2. The program will automatically recognize the connected device.
4. Click **[Read]** to see current controller parameters

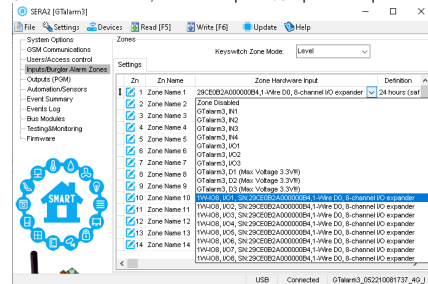
5. Go to **[Bus Modules > 1 wire bus modules]**. On the table should be visible the registered expansion module.



6. Go to **[Outputs (PGM) > Outputs Table]** and select needed I/O from 1WIO8 module



7. Upon your need Set other parameters of the output.
8. In the same manner, select the required I/O input in the input table.



! Please note: 1WIO8 inputs can only be NC/NO type. EOL type is not supported.

9. To save configuration Press **[Write]**
10. To remove registered 1WIO8 module press cross icon on the [1-Wire Bus Modules] table. And Press **[Write]**

Installation & Programming Manual

Scan QR Code to download manual



Website: <https://topkodos.it>

Email: info@topkodos.it

https://topkodos.it/Downloads/media/Manuals/1WIO8_QS_EN.pdf